29 JUL 59

THE URBAN DISTRICT COUNCIL OF PORTISHEAD.

A N N U A L R E P O R T

OF

DR. M. C. O'CONNOR

MEDICAL OFFICER OF HEALTH.

FOR

YEAR ENDED

31st DECEMBER, 1958.

THE URBAN DISTRICT COUNCIL OF PORTISHEAD.

ST.MARTINS,
LONG ASHTON,
BRISTOL.

TELEPHONE: L.A.3140.

ANNUAL REPORT OF THE MEDICAL OFFICER OF HEALTH FOR THE YEAR ENDING 31st DECEMBER, 1958.

Medical Officer of Health.	Dr.M.C.O'Connor, M.B., B.S., D.P.H.
Engineer and Surveyor.	M.F.Gilbert,
Housing Manager and Public Health Inspector.	W.H.Green,
Building Inspector.	G.J.Lidbury,

Committees concerned with matter related to Public Health:-

Works Committee,
Health Committee,
Accident Prevention Committee,
Housing Committee.

To the Chairman and Members of the
Urban District Council of Portishead.

Mr.Chairman, Ladies & Gentlemen,

I have the honour to submit this Report on the Health and Sanitary Condition of the District through the past year. The information therein is, as far as possible, in conformity with the requirements of the Ministry of Health, as laid down, together with other material I feel worthy of record and comment.

1. POPULATION.

As assessed by the Registrar General for mid 1958 :- 5,600

Rateable Value (31.12.'58) £74,529 Domestic 58%
Industrial 15.2%

Product of Penny Rate. £295

2. AREA. 1,119 Acres

Number of Permanent Dwellings :- 1,669

3. VITAL STATISTICS.

(a) Live Births.

	Male	Female	Total.
Legitimate	56	50	106
Illegitimate	6	3	9
Total	62	53	115

Of these 57 were born in the Urban District.

VITAL STATISTICS (Contd).

(b) Live Birth Rate. (Corrected for age distribution of Population)

20.95 per 1,000 population.

(That for England and Wales for 1958 is 16.4)

(c) Still Births. 2 female, legitimate.

Stillbirth rate per 1,000 total (live and still) births:- 17.1

(d) Total Births. 117

(e) Infant Deaths.

Age.	Male.	Female.	Total.
Under 1 week	2	2	4
1 week to 4 weeks	-	-	-
1 to 12 months	-	1	1
Totals	2	3	5

All occurred in Hospitals. None was illegitimate.

Infant Mortality rate per 1,000 live births	43.5
" " " " 1,000 legitimate births	47.1
" " " " 1,000 illegitimate births	Nil.
Neo-natal Mortality rate (First four weeks) Early Neo-natal Mortality rate (first week) per 1,000 related live births	34.8
Peri-natal Mortality rate (stillbirths and deaths during first week) per 1,000 total live and still births	51.3
Percentage of illegitimate live births	7.7%
Maternal Deaths (excluding abortion)	Nil
Maternal Mortality rate (including abortion) per 1,000 total births	Nil

(f) DEATHS. (All causes).

Total number of deaths during the year:-	62	
Death Rate (Corrected):-	10.4	per 1,000 population
For England and Wales	11.7	" " "

Causes. (Registrar General's Figures)

	Male.	Female.	Total.
Cancer of Stomach	-	-	-
" " Lungs and Bronchus	1	-	1
" " Breast	-	2	2
Other cancers	4	4	8
Vascular Disease Nervous System	7	9	16
Coronary Disease of Heart	12	2	14
Other Heart Disease	1	3	4
Other circulatory Disease	1	-	1
Pneumonia	3	3	6
Bronchitis	1	-	1
Ulcer of Stomach & Duodenum	1	-	1
Congenital Deformities	-	1	1
Other and illdefined diseases	3	3	6
Suicide	1	1	2
Totals	35	28	63

(These figures include one child belonging to North Weston, with the postal address of Portishead).

VITAL STATISTICS (Contd).

DEATHS (Contd).

Age Distribution.

	Male.	Female.	Total.
Under 1 year	2	3	5
1 and under 5	1	-	1
5 and under 15	-	-	-
15 and under 45	-	1	1
45 and under 65	11	5	16
65 and under 75	12	5	17
75 and over.	9	14	23
Totals	35	28	63

Note.

There are some remarkable absentees from the list of causes, e.g.
Tuberculosis
Infectious Diseases
Pregnancy, Childbirth etc.
Motor and other accidents.

4. NOTIFIABLE DISEASE.

The following are the numbers of the only cases of notifiable disease reported during the year :-

Disease.	Total Received.	Admitted to Hospital.	Deaths.
Acute Pneumonia	5	5	-
Suspected Food Poisoning	1	-	-

5. TUBERCULOSIS.

There were two notifications of new cases during the year, one of each sex. There were also two transfers from other Districts.

The Register shows the following numbers of cases at the end of 1958.

	Male.	Female.	Total.
Pulmonary	11 (9)	8 (11)	19 (20)
Non-pulmonary	1 (1)	1 (2)	2 (3)

The figures in brackets denote numbers last year.

One non-pulmonary case died of Broncho-pneumonia in Hospital.

Mass Radiography.

The Mass Radiography Unit of the South Western Hospital Board visited Portishead twice during the year, in January to sessions at the works of Messrs.Albright & Wilson Ltd. and of the Central Electricity Authority and again in December for the National Nautical School and the general public in separate sessions.

In brief the following were the results :-

Central Electricity Authority. (Jan.9th - 10th).	447 examined; one non-tuberculous condition noted.
Albright & Wilson Ltd. (Jan.8th)	273 examined; one active and one inactive cases of tuberculosis found, and two other 'significant' conditions.
National Nautical School. (Dec.5th).	157 examined; two inactive cases of tuberculosis and two 'other'.
Portishead (Methodist Hall) (Dec.8th - 10th) No scholars.	374 examined; nine inactive cases and eight other significant conditions.

6. IMMUNISATION.

The following figures are supplied by the County Medical Officer of Health. The work is carried out by the general medical practitioners or at School or Welfare Clinics.

Diphtheria.

The number of children who completed a full course of PRIMARY Immunisation during 1958:-

Age.	Under 1	1	2	3	4	5 - 9	10 - 14	Total.
	76	32	4	4	-	15	-	131.

Re-inforcing injections:- 17 in the 5-9 group during the first half-year.

Number of children at 31st December, 1958, who had completed a course of Immunisation (whether primary or booster) within the last five years (i.e. at any time since 1st January, 1954).

Age at 31.12.58 i.e. born in -	Under 1 1958	1 1957	2 1956	3 1955	4 1954	5 - 9 1953-49	10 - 14 1948-44	Total under 15
	6	65	71	58	74	373	94	741

Whooping Cough.

Number of children who completed a primary course of Pertussis Vaccine (singly or in combination) in the year :-

Age.	Under 1	1	2	3	4	5 - 14	Totals.
	91	28	4	3	-	2	128

Smallpox.

Number of persons vaccinated, or revaccinated, in the year :-

Age.	Under 1	1	2 - 4	5 - 14	15 or over	Total.
	73	3	13	9	4	101
					+ 8 revac.	8

Poliomyelitis.

Number of persons who received a course of primary vaccination (2 injections) during the year :-

Born in:-	1933-42	43	44	45	46	47	48	49	50	51	52
	2	8	8	27	31	51	48	50	53	49	54

Born in:-	1953	54	55	56	57	58	Total 1943 58.
	59	51	40	52	40	4	625

Expectant Mothers:- 5
Doctors and families:- 7
Ambulance staff and families:- 6

No.(all groups) received third Injection:- 15.

7. GENERAL PROVISION OF MEDICAL HEALTH SERVICES.

Laboratory facilities for bacteriological purposes are provided by the Public Health Laboratories at Musgrove Park Hospital, Taunton, and at Canygne Hall, Whatley Road, Bristol and for analytical purposes at the County Laboratory, County Hall, Taunton. Atmospheric Pollution analyses were carried out by the Bristol City Analyst, by arrangement with the County Council, until the end of March. From April 1st this has been done by Dr.G.V.James under direct arrangement with this Council.

GENERAL PROVISION OF MEDICAL HEALTH SERVICES (Contd).

The County Medical Officer of Health and his Staff are responsible for the active operation of the Health Services under the National Health Service Acts, 1946-52. They include :-

Maternity and Child Welfare	Tuberculosis
Home Helps	Home Nursing and Health Visitors
Mental Health	Welfare Foods
Venereal Disease	Public Health Laboratories
School Medical Service	Immunisation.
Ambulance Service	

The Area Home Help Organiser is :- Miss K.Jenkins,
3, Neva Road, Weston-super-Mare.

The District Nurses are :- Miss E.I.Marchant and
Miss A.Wintle,
3, Link Road South,
Portishead.

The School Medical Officer is :- Dr.M.J.Cooke,
Berwick Lodge,
19, Victoria Road, Clevedon.

An Ambulance is stationed in Portishead and works in co-operation with the Clevedon centre.

All Hospitals are under the control of the South Western Hospital Board and Infectious Diseases are admitted to Ham Green Hospital, which has recently also been turned into a General Hospital, where cases are often admitted from the District. I am grateful for the report I receive, through the Medical Officer of Health, Bristol and from the Hospital on many local cases.

8. FIRST AID STATION.

Mrs.Phyllis Wicks, in command of this most valuable Post, has kindly supplied me with the following particulars of their services during the year.

"The voluntary staff treated 3,312 patients, 757 of which came for light and heat treatment and massage. These treatments are proving very popular and useful to patients and the doctors who send them.

Each month an old people's Foot Clinic is well and gratefully attended and many old people who are unable to attend are treated in their homes.

Two subsidiary posts for first aid treatment have been established (and officially recognised) in Nore Road and Redcliffe Bay.

Two Blood Donor Sessions were organised, with 235 donors. New donors are always required as sore leave the District.

The work of the Post is done by only 15 voluntary members."

The Commandant would be glad to hear of anyone with a few hours a week to spare and the will to be trained who would go and help.

9. WATER SUPPLY.

Water is available as piped supply to all houses in the District, and is supplied by the Bristol Waterworks Company. There has at no time been any shortage.

Quality. There is never any doubt about the purity of the water bacteriologically.

There has been a definite improvement in the hardness of the water during the year, but it remains a very hard water. The following figures are the results of analyses made by the County Analyst.

WATER SUPPLY (Contd).

All results in parts per million.

	1957	1958 12th March.	1958 10th April.
Physical Character.	Clear, Bright	Clear, bright	Clear, bright.
Reaction	Very slightly alkaline pH 7.2	Slightly alkaline pH 7.6	Sl. Alkaline pH.7.8
Total Solids	429.0	332.0	294.0
Alkalinity (as $Ca\ Co_3$)	330.0	220.0	205.0
Total hardness	370	270	220
(a) Permanent	70	80	40
(b) Temporary	300	190	180
Chlorides (in terms of sodium chloride)	40	29	27
Nitrogen, as Saline and free Ammonia	0.002	0.08	0.08
Nitrogen, as Albuminoid and free Ammonia	0.038	0.084	0.07
Nitrogen as Nitrates and free Ammonia	4.0	1.2	0.8
Nitrogen as Nitrites and free Ammonia	Nil	Nil	Nil
Oxygen absorbed from Permanganate (4 hrs. at 80° F.)	0.4	0.4	0.8
Free Carbon Dioxide	2.0	4.0	2.0
Poisonous Metals	-	-	-
Silica (as $Si\ O_2$)	-	-	-
Sediment	None	None	None

Extensions have been made by the Company as needed for housing development.

10. SEWERAGE AND SEWAGE DISPOSAL.

Generally the District is sewered but, with the exception of the new housing estates, has mainly a combined foul and surface water system. The western end of the District, on parts of Down Road and Nore Road, has drainage to cess-pits, a system in practice in the adjacent Redcliffe Bay area of the Long Ashton Rural District.

Extensions of sewers, new works or improvements:-

Extensions to sewers have been carried out by private contractors to new housing at Bruton Manor and Combe Avenue.

Much work has been done in clearing old sewers and carrying out investigations as to causes and situations of flooding incidents. Repairs and the alteration of old and the erection of new manholes have been carried out.

Future Proposals.

(1) Major alterations to the existing system to alleviate flooding in the High Street, Slade Road and on the Lake Grounds.

Cost of the Scheme, as submitted for consideration £45,800
Including storage tank sewer at estimated cost £20,400.

(2) Scheme for the sewer drainage of western end, Nore Road and Down Road, adjacent to Redcliffe Bay in conjunction with Long Ashton Rural District, with possible links with the main system.

Preliminary estimate of cost £23,530
Including £4,070 anticipated contribution from Rural District.

SEWERAGE AND SEWAGE DISPOSAL (Contd).

Observations.

Much work has been done throughout the year in investigating the conditions in the old system and the efficiency of its working. This has entailed the installation of sewage-level instruments and rainfall recorders, as well as the clearing of many sewers which were found to be partially choked with grit and sediment. Records are being kept of all incidents of flooding as well as those of the pumping hours, ejector pumping figures etc. Much minor repair work and improvements have been carried out, out of revenue funds. The large egg-shaped sewer, which discharges into the rhine, has been completely dragged and several tons of silt removed. Sewers in Station Road, Harbour Road, Victoria Square, Lake Road and also parts of St.Mary's Road and Slade Road have been similarly cleared.

It is obvious that sewerage maintenance has been starved over many years, and there seems a probability that the extra hard work put in by the Surveyor, with the assistance of the factual data he is able to collect are likely to be of the greatest assistance to the Consultant Engineers and result in the eventual production of a scheme which will be effective and, one hopes, less costly than at first visualised.

Thus future Proposal (1) is approaching the stage when definite plans may be finally submitted to the Ministry for approval. The first scheme was withdrawn, after submission, for further consideration in the light of the new facts and figures obtainable from the work of maintenance, mentioned previously, already carried out.

Proposal (2) is under negotiation with Long Ashton Rural District and the Council have instructed their Consultant Engineers to proceed with the scheme in outline for submission to the Ministry; this second scheme having some connection with the first in that it may well be possible with the works provided in the second scheme to alleviate the conditions requiring the first scheme. Thus the first scheme may be considerably amended and the cost substantially reduced.

11. PUBLIC CLEANSING.

House Refuse is removed by Direct Labour using one Karrier Diesel Refuse Truck, supplemented by an Austin 3-ton lorry, fitted with a Tuke and Bell removable refuse top when required. Collection is made weekly throughout the District.

Trade waste is collected from Shops, but not from the large works.

Cesspool emptying is done by private arrangement with a contractor.

House and Trade Refuse are disposed of by controlled tipping into one controlled tip.

SALVAGE, is carried out by the Staff, with efficiency, to provide the following revenue:-

Paper	114 tons (93)	producing £795	(£672)
Metals	65 tons (24)	producing	
Rags	26 cwt.	together £315	(£140)

Figures in brackets refer to 1957.

12. CAMPING SITES.

	Permanent	Seasonal.
(a) Number of licensed individual movable dwellings	1	-
(b) Number of licensed camping sites	1	1
(c) Maximum number of caravans allowed per acre	10	-
(d) Estimated maximum number of campers resident during year.	6	9

13. HOUSING.

Action taken during the year :-

Number of houses demolished or closed under Section 17 of the Housing Act, 1957 (individual unfits)	2
Number of temporary dwellings demolished	1
Number of houses declared unfit under Section 9 of the Housing Act, 1957	1
Number of unfit houses occupied under licence	Nil.

Rent Act, 1957 (1st Schedule).
Certificates of Disrepair:-

(a) Number of applications received	2
(b) Number of Certificates issued	1

Houses erected during the year :-

By Council (for Slum Clearance)	3
By Council (for other purposes)	21
By Private Enterprise	37

Houses in course of erection :-

By Council	Nil
By Private Enterprise	42

Gained from conversion of large houses into flats or dwellings.

By Council	2
By Private Enterprise	1

Note. The Council has acquired a number of properties for conversion, and work is in progress on some of these.

Number of Post-War Houses erected from 1.4.45 to 31.12.58.

By Local Authority	511
By Private Enterprise	143

Housing Programme for 1959.

For Slum Clearance	Nil
For other purposes (all old people's)	14

(a) Number of temporary housing units occupied :-	Prefabs	19
	Huts	Nil
(b) Number of houses found overcrowded		7
(c) Number of houses made fit during the year		16

Houses Required.

(a) To replace houses scheduled for demolition	5
(b) To abate overcrowding....dealt with on housing application.	
(c) For other purposes (old people) estimated	35

Total number of applications for Council Houses at the end of the year:-	57
Total number of Council Houses sold during the year	Nil

HOUSING (Contd).

Number of permanent dwellings in District as at 31.12.57		1605
Gained from conversions (Council and Private Enterprise) and erected during 1958		64
	Total	1669
Less houses demolished		2
Number of permanent dwellings as at 31.12.58		
Council		570
Private Enterprise		1097
	Total	1667

The Housing Manager reports :-

"A number of properties has been purchased by the Council for improvement and conversion and therefore the figures for Private Enterprise houses have had to be reduced to balance the increase in Council houses.

Owing to the industrial nature of Portishead, housing requirements are not stable, but the list remains at between 50 and 60 applicants for accommodation. The position is aggravated by the presence of large caravan camps and areas of holiday bungalows just outside the Urban boundary, results in persons starting work in Portishead obtaining unsatisfactory accommodation, particularly when there are children in the family."

Improvement Grants.

Number of applications and houses dealt with by the Council :-

	Received		Approved		Rejected	
	Apps.	Houses.	Apps.	Houses.	Apps.	Houses.
31.7.49 - 31.12.57	36	36	34	34	1	1
During the year	10	10	11	11	-	-
Total (31.7.49 - 31.12.58)	46	46	45	45	1	1

Note. - Number of applications approved in respect of owner/occupiers during the year	9
Average cost per dwelling during the year	£471
Average rent fixed	£120
Amount of Grant payable by Council	£2,565

The Council has awarded the full statutory limit of Grant for improvements, as opposed to repairs, and has given every encouragement and assistance to property owners.

14. FOOD.

Milk.

(a)	Number of Registered Distributors	4
(b)	Number of Registered Dairy Premises (other than Dairy Farms)	2
(c)	Number of Licensed Dealers of Designated Milk	4
(d)	Number of supplementary Licences issued to distributors whose dairy is outside area.	5

Milk Sampling, is carried out by the County Authorities.

FOOD (Contd).

Ice Cream.

(a)	Number of premises registered for manufacture and retail	1
(b)	For manufacture only	Nil
(c)	For retail only	19

Three samples were taken during the year, all prepared by the Hot Mix method, and all proved to be Grade 1.

15. FOOD HYGIENE.

Food Hygiene Regulations, 1955.

Action taken during the year :-

A considerable number of the main food shops have been inspected by the Medical Officer of Health and the Public Health Inspector, and at our request works have been executed by the shop-keepers to bring their premises up to the requirements of the Regulations. Generally they have been very co-operative. The remainder of the shops and licensed premises are being dealt with.

A Statutory Notice was served on one shopkeeper regarding sanitary accommodation.

Slaughter Houses. There is none in Portishead.

Premises where Food is prepared.

There are 8 premises registered under Section 16 of the Food and Drugs Act, 1955 for the preparation of Ice Cream, Meat Products, etc.

16. ATMOSPHERIC POLLUTION.

Clean Air Act, 1956.

The question of atmospheric pollution, particularly concerning the Central Electricity Generating Board's Power Station and the Phosphorus Factory of Messrs. Albright & Wilson, is under constant review and regular air analyses are made under the supervision of Dr.G.V.James, who makes monthly reports. A table showing the results through the year is appended to this Report.

In addition there is a consultative committee with Messrs.Albright & Wilson Ltd. which meets regularly to discuss any source of complaint. Reasonably close liaison is also maintained with the Central Electricity Generating Board with regard to their premises.

17. FACTORIES ACTS, 1957 and 1948.

Annual Report of the Medical Officer of Health in respect of the year 1958.

Part I of the Act.

(1) Inspections for the purposes of provisions as to health, (including those made by the Public Health Inspector).

Premises.	Number on Register.	Inspections	Written Notices.	Prosecutions.
(i) Factories in which Sects.1,2,3,4 & 6 are enforced by L.A.	17	19	-	-
(ii) Factories not included in (i) in which Sect.7 is enforced by L.A.	13	17	-	-

FACTORIES ACTS, 1957 and 1948 (Contd).

	Number on Register.	Inspections.	Written Notices.	Prosecutions.
(iii) Other Premises in which Sect.7 is enforced by L.A. (excluding out-workers premises).	5	7	-	-
Totals.	35	43	-	-

18. CONCLUSION.

The general health of the District appears to have been good throughout the year. There was no case of Poliomyelitis and there has been a good response to the call for inoculation among the younger children. It is to be hoped that the susceptible adolescent group will co-operate and then, I feel, we may hope that the disease may join Diphtheria among the conquered infections.

Whereas before 1956 our Death Rate exceeded that of the Country as a whole, it has, for the last three years, been well below. I am inclined to associate this with improved conditions, mainly housing. The local birth rate has, as far as my records show, always been significantly higher than the Country average.

A great deal of time has been spent in consideration of the Sewerage proposals and I feel that the Council is fortunate in the selection of their Surveyor and Engineer, who is also fortunate that his appointment coincided with the hopes of a more realistic assessment of the District's due in revenue from the large industries here, enabling the Council to tackle the problems more generously.

This Report is compiled with the essential assistance of the Public Health Inspector and Housing Manager, as well as the Surveyor, and I must acknowledge their help gratefully. I also appreciate the assistance always very willingly given by the Clerk and his Staff, and I conclude, Sir, thanking you and all members of the Council for their kindness and understanding.

Yours faithfully,

M.C.O'Connor, M.B., B.S., D.P.H.

Medical Officer of Health.

Appendix.

HOUSING.

Schedule of Council Dwellings.

	Bedrooms.					Total.
	1	2	3	4	5	
Albert Road.						
Houses			4			4
Bristol Road.						
Houses		3	23	7		33
Flats		52				52
Burlington Road Estate.						
Houses			40			40
Unsubsidised			3			3
Milton Villas.						
Houses			18			18
West Hill Estate.						
Houses		2	100	8		110
Flats *		75				75
Prefabs.		19				19
Down Road Estate.						
Houses			136			136
Flats			48			48
Bungalows	11		4			15
Unsubsidised			6			6
Conversions etc.						
Maisonettes			4			4
Flats		2	8	1		11
Golf House				2		2
18, South View				1		1
Moorland House					1	1
Battery Bungalow				1		1
Carlton House					1	1
Lynton Villa					1	1
Pier House			2			2
for conversion 3,4 & 5, Royal Terrace					3	3
do. 14 & 16, Channel View Crescent				2		2
do. 6, Adelaide Terrace					1	1
Totals	13	213	338	18	7	589

* Includes 3 over shops.

Pre-War Houses	29
Post-War Traditional	289
Post-War New Traditional	220
Prefabs	19
Conversions, etc.	32
	589

PORTISHEAD - ATMOSPHERIC POLLUTION.

The following table gives details for the years 1950 to 1958.

RAINFALL in inches.	Dock.	Meadow Farm.	South Road.
1950	35.7	36.1	-
1951	30.8	36.7	29.4 (10 mths.)
1952	26.3	35.4	34.3
1953	28.6	31.2	27.7
1954	37.4	36.0	37.6
1955	21.8	24.7	24.2
1956	24.5	25.6	24.9
1957	27.0 (11 mths.)	29.0 (11 mths.)	29.4
1958	25.8 (10 mths.)	32.8 (10 mths.)	30.4 (10 mths.)
TOTAL SOLIDS (Tons per sq.mile).			
1950	530	117	-
1951	303	83	178 (10 mos.)
1952	285 (10 mos.)	92	214
1953	507 (11 mos.)	85	238
1954	562.5	88.2	217.4
1955	471.5	79.3	199.2
1956	552.6 (11 mos.)	73.5	202.5 (11 mos.)
1957	285 (11 mos.)	63.4 (11 mos.)	166.7
1958	688 (10 mos.)	304 (10 mos.)	553.6 (10 mos.)

The value of the figures for the past year, 1958, is complicated by the fact that heavy work on the Dock was carried out during the year and that the estimations were done in a different laboratory from April on. There has certainly been no comparable smoke or dust nuisance, although the transport of the fly-ash in lorries through the streets caused some anxiety before the lorries were better equipped.

However the very high figures for Meadow Farm would seem to be explicable only on the grounds of a difference in laboratory method, aided, perhaps, by the high rainfall.

PORTISHEAD - ATMOSPHERIC POLLUTION.

1958.

MONTHLY RESULTS.

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Rainfall (inches).													
Meadow Farm	*	4.25	*	0.85	2.60	3.67	1.69	3.82	5.31	3.90	1.89	4.29	32.27 (10 mos.)
South Road	*	3.45	*	0.88	2.69	2.92	1.58	3.74	5.28	3.74	2.21	3.86	30.35 (ditto)
Portishead Dock	*	3.20	*	0.82	2.25	2.65	1.50	3.11	4.02	3.03	1.46	3.66	25.70
Total Solids (tons/sq.mile)													
Meadow Farm	6.95	7.77	*	30.37	59.91	26.01	8.35	48.10	48.74	40.07	7.68	20.16	304.11 (11 mos.)
South Road	11.89	29.08	*	54.56	92.70	62.47	9.31	45.10	156.20	29.87	27.27	35.20	553.65 (ditto)
Portishead Dock	32.39	41.59	*	34.10	75.86	70.09	35.67	49.97	155.76	65.69	60.75	66.12	687.99 (ditto)
Sulphur by Lead Peroxide Method Weight of SO_3 in mgm. per 100 sq. cm. per day.													**Average.**
Meadow Farm	1.10	0.62	*	0.83	0.32	0.26	0.55	0.50	0.42	0.32	0.70	0.85	0.59
South Road	0.66	0.71	*	0.60	0.49	0.35	0.63	0.62	0.52	0.35	0.79	0.86	0.60
Portishead Dock	0. 99	3.29	*	1.00	0.75	0.80	0.60	0.88	0.67	1.15	0.94	0.86	1.08
Power Station	0.73	1.95	*	0.77	0.38	0.31	0.27	0.27	0.28	0.33	0.88	0.78	0.63